



# INDUSTRY PROFILES

## Manufacturing Industry

June 2013

Alberta

## **Overview:**

The Manufacturing industry<sup>1</sup> in Alberta includes establishments involved in:

- food manufacturing;
- beverage and tobacco product manufacturing;
- textile, textile product mills and clothing manufacturing;
- petroleum and coal products manufacturing;
- chemical, plastics and rubber manufacturing;
- computer and electronic products manufacturing; and
- other manufacturing.

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<sup>1</sup> North American Industry Classification System (NAICS) groups 311 and 339

## Section A: Business Environment

### 1. 2012 Employment and Unemployment Numbers and Rates:

	Alberta	Manufacturing Industry
Number of employed	2,149,600	138,500
Percent employed in the industry		6.4%
Number of unemployed	103,800	3,300
Unemployment rate	4.6%	2.3%

Data Source: Statistics Canada, Labour Force Survey, CANSIM Table 282-0008, 2013

For more information on employment numbers or for a historical comparison, please go to the Labour Force Statistics<sup>2</sup> or Statistics Canada<sup>3</sup> websites.

### 2. Industry's Growth:

- This industry accounted for 6.4% of total employment in Alberta in 2012.
- Employment in the Manufacturing industry is expected to grow at an average of 2.4% from 2011 to 2015.
- This industry is expected to account for 6.2% of total employment in Alberta in 2015.

For more information, see the *Alberta Modified Canadian Occupational Projection System (COPS) Outlook 2011 – 2015, Industry Employment Outlook*<sup>4</sup> online and the Alberta Learning Information Service (ALIS)<sup>5</sup> website for descriptions of industries.

<sup>2</sup> See <http://www.cae.alberta.ca/lmi>

<sup>3</sup> See <http://www.statcan.gc.ca>

<sup>4</sup> See <http://cae.alberta.ca/labour-and-immigration/labour-market-information/labour-market-forecasts.aspx>

<sup>5</sup> See <http://www.alis.alberta.ca>

### 3. Facts, Trends and Outlook:

According to Statistics Canada's National Economic Accounts, the Manufacturing industry accounted for 8.4% of Alberta's Gross Domestic Product in 2011, down from 9.1% in 2001. Its share of Alberta's total employment decreased from 9.0% in 2002 to 6.4% in 2012.

Employment in 2012 was 2.1% lower than its level in 2011. Over the last ten years, employment (the total number of employees and self-employed people) decreased from 150,300 people in 2002 to 138,500 people in 2012. There were 131,800 employees in the industry in 2012 of whom 97.1% were permanent and 2.9% were temporary. Self-employed people accounted for 4.8% of total employment in the industry in 2012.

Characteristic	Alberta	Manufacturing
Median Retirement Age (years)	63.7	64.8
Average Number of Hours Worked per Week	38.2	41.4
Multiple Jobholders (% of total employment)	5.7%	3.2%
Average Job Tenure (months)	88.8	98.0
Employees Under Union Coverage (%)	23.5%	17.9%
Employees Working Overtime per Week (%)	26.0%	31.4%

Data Source: Statistics Canada, Labour Force Survey, CANSIM Table 282-0022, 282-0031, 282-0042, 282-0078 and 282-0084, 2013, and custom tabulation (median retirement age)

Note: The percentage of multiple jobholders in Alberta is obtained by dividing the number of multiple jobholders in Alberta by total employment in Alberta. The percentage of multiple jobholders in the industry is obtained by dividing the number of multiple jobholders in the industry by total employment in the industry. This calculation method also applies to the percentage of employees under union coverage and the percentage of employees working overtime per week.

According to *Alberta Occupational Demand Outlook 2012-2016*<sup>6</sup>, employment growth in most occupations in the industry is expected to be equal to or below 2.4%, the average for all occupations.

<sup>6</sup> See <http://eac.alberta.ca/labour-and-immigration/labour-market-information/labour-market-forecasts.aspx>

#### 4. Size of Businesses in Alberta and the Industry:

Establishment Size	Businesses in Alberta		Businesses in Manufacturing	
	Number of Employees	%*	Number of Employees	%*
Less than 20 employees	633,200	35.1%	33,500	25.4%
20 to 99 employees	634,600	35.2%	43,600	33.1%
100 to 500 employees	342,100	19.0%	44,100	33.5%
Over 500 employees	194,400	10.8%	10,700	8.1%

Data Source: Statistics Canada, Labour Force Survey, CANSIM Table 282-0076, 2013

\* Percentages may not add up to 100 due to rounding.

Note: Statistics Canada's survey methodology for determining establishment size differs from the one it uses in the Labour Force Survey to determine total employment. As a result, the total number of employees by establishment size will not be the same as total employment in the industry, except by coincidence.

## Section B: Human Resources Profile

### 1. Occupational Information:

Some examples of occupations that can be found in the Manufacturing industry include:

- meat cutter;
- machinist;
- manufacturing engineer;
- sawmill machine operator; and
- instrument technician.

For a complete listing of all occupations related to this industry as well as detailed information on education and skill requirements, visit the Alberta Occupational Profiles<sup>7</sup> website.

### 2. Demographics: Gender and Age:

According to the Labour Force Survey, the gender breakdown in Alberta's manufacturing industry in 2012 was as follows:

- women employed: 32,700 people, or 23.6%
- men employed: 105,800 people, or 76.4%

In Alberta, women accounted for 44.8% and men made up 55.2% of total employment.

Age Characteristics	Employment in Alberta		Employment in Manufacturing	
	Number	%	Number	%*
15-24 years	315,500	14.7%	15,400	11.1%
25-54 years	1,458,300	67.8%	101,300	73.1%
55 years and over	375,800	17.5%	21,800	15.7%

Data Source: Statistics Canada, Labour Force Survey, CANSIM Table 282-0008, 2013

\* Percentages may not add up to 100 due to rounding

<sup>7</sup> See <http://www.alis.alberta.ca/occinfo>

### 3. Wages:



Data Source: Statistics Canada, Labour Force Survey, CANSIM Table 282-0072, 2013

Note: The average hourly wage is obtained by dividing the sum of the wages of all the employees by the total number of employees. The median hourly wage is that wage below which half the employees earn and above which half the employees earn.

#### Wage and Salary Information for Selected Occupations

Occupation	Average Hourly Wage			Average Annual Salary
	Starting Average	Overall Average	Top Average	
Industrial engineer	\$ 31.62	\$ 39.78	\$ 48.13	\$ 82,169
Manufacturing manager	\$ 34.48	\$ 41.39	\$ 49.33	\$ 86,474
Industrial instrument technician and mechanic	\$ 31.55	\$ 36.42	\$ 38.68	\$ 74,698
Machinist	\$ 20.99	\$ 27.00	\$ 32.97	\$ 56,742

Data Source: 2011 Alberta Wage and Salary Survey

For more information on the 2011 Alberta Wage and Salary Survey, refer to the WAGEinfo<sup>8</sup> webpage. For job descriptions, duties, required skills and education for specific occupations in the Manufacturing industry, visit the ALIS<sup>9</sup> website.

<sup>8</sup> See <http://www.alis.alberta.ca/wageinfo>

<sup>9</sup> See <http://www.alis.alberta.ca>

## Section C: Additional Information

### Links to Selected Associations in Industry:

- Alberta Food Processors Association  
(<http://www.afpa.com>)
- Brewers Association of Canada  
(<http://www.brewers.ca>)
- Food Processors of Canada  
(<http://foodnet.fic.ca>)
- Canadian Poultry and Egg Processors Council  
(<http://www.cpepc.ca>)
- Alberta Forest Products Association  
(<http://albertaforestproducts.ca>)
- Canadian Plastics Industry Association  
(<http://www.plastics.ca>)
- Canadian Fuels Association  
(<http://canadianfuels.ca>)
- Canadian Machinery and Metal Working Magazine  
(<http://www.canadianmetalworking.com>)
- Canadian Manufacturers and Exporters  
(<http://www.cme-mec.ca>)